

Amendments to the Specification

Please replace the paragraph on Page 2, lines 8 - 21 with the following marked-up replacement paragraph:

-- With the wide-spread use of SSL (Secure Sockets Layer) and certifiable digital certificates for providing security in today's PC-based computing environments, there is a desire to use a client certificate as the basis for a "single system log on" to all of a user's Internet-based applications. This includes applications that provide access to legacy host applications and/or data such as IBM's Host-On-Demand, Personal Communications, and Host Publisher products. Digital certificates are used to authenticate entities, as is well known in the art. U. S. Patent (serial Patent 6,128,738 (serial number 09/064,632, filed 12/10/98), which is titled "Certificate titled "Certificate Based Security in SNA Data Flows", teaches a technique whereby digital certificates are transported in appropriate Systems Network Architecture ("SNA") data flows between a client and a host for identifying the user to the host application, but this existing technique requires those host programs which authenticate the user to RACF (or other host access control facility) to be modified to use the certificate instead of the traditional userid and password. This requires an enterprise to upgrade each of its application subsystems in order to achieve the benefits. So for some enterprises, the previous approach may be impractical and unacceptable. --

Please replace the paragraph that begins on Page 10, line 15 and carries over to Page 11, line 5 with the following marked-up replacement paragraph:

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-- Fig. 3 illustrates message flows that may be used for authenticating a user by a legacy host application according to the prior art. When a user at a client device wishes to work with a legacy host application and/or data, the client device must use some form of emulation or emulator product to allow communication between the distributed computing environment and the host application. In the example of Fig. 3, the client is using an emulator product which uses the TN3270 emulation protocol. The TN3270 protocol is used to provide emulation of the "3270 data stream", as is well known to those familiar with the art. The 3270 data stream is frequently used for information transfer to and from legacy host applications, and is so named because it was originally designed for use with IBM Model [[3270]] 327x client workstations. --

Please replace the paragraph on Page 11, lines 6 - 12 with the following marked-up replacement paragraph:

-- Note that while the examples describing the present invention are discussed with reference to the 3270 data stream format, this is for purposes of illustration and not of limitation. Other data stream formats may be used alternatively. Another commonly used data stream format for communicating with legacy host applications is referred to as a "5250 data stream", originally designed for communicating with IBM Model [[5250]] 525x workstations. The TN5250 emulation protocol is used with a 5250 data stream. Yet another commonly used data stream is an ASCII data stream, commonly referred to as a "Virtual Terminal" or "VT" data stream. --